



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET, S.W.
ATLANTA, GEORGIA 30303-8960

January 25, 2018

Davidson College
P.O. Box 7166
Davidson, North Carolina 28035

SUBJ: EPA Asbestos Removal at 403 Potts Street (community garden)

To whom it may concern:

Enclosed, you will find the Removal Action Status Report for the property located at 403 Potts Street in Davidson, North Carolina. The report summarizes information regarding the original asbestos sampling, a description of the Removal Action conducted on the property, a summary of multimedia sampling results, details on the restoration of the property and the timeframe of the Removal Action. We have also included a figure of the removal area and the air sampling locations, a table of the air sampling results and photographs of the removal activities.

The removal activities have been completed and there are no further actions needed on the above-mentioned property. If you have any questions or need further information, please do not hesitate to contact Jordan Garrard, US EPA, Federal On-Scene Coordinator directly at (678) 644-8648, via email: garrard.jordan@epa.gov or myself directly at (678) 575-8132, via email: miller.angela@epa.gov, at any time.

It was such a pleasure working with you and your community. Thank you for your cooperation and patience throughout the removal activities.

Sincerely,

A handwritten signature in black ink, appearing to read "Angela R. Miller", is written over a horizontal line.

Angela R. Miller, US EPA
Community Involvement Coordinator

Enclosure(s)

cc: Jordan Garrard, US EPA, Federal On-Scene Coordinator
Miguel Alvalle, NC DEQ

REMOVAL ACTION STATUS REPORT DAVIDSON ASBESTOS

Property Address: 403 Potts Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were collected at a depth of 0 to 3 inches below ground surface (bgs) and subsurface soil samples were collected at a depth of 3 to 6 inches bgs. Analytical results are reported in increments of 0.25 percent asbestos.

Property Address	Area Sampled	Surface Soil Results (percent asbestos) 0-3 inches deep	Subsurface Soil Results (percent asbestos) 3-6 inches deep
Community Gardens	Northeast Portion	No Asbestos Detected	0.25
	Planted Beds	No Asbestos Detected	No Asbestos Detected

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: lawn to 12 inches and tree and shrub line areas to 3 inches (see Appendix 1).

Visual inspections of the excavated areas for asbestos-containing materials (ACM) were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Visible ACM was not detected at the time of the inspection and restoration of the excavated areas was allowed to commence.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted at three stationary locations during removal activities July 6, 2017. Air sampling was conducted at these locations based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.0013 fibers per cubic centimeter (f/cc) to less than 0.0023 f/cc (see Appendix 2). A 7-point composite soil sample was collected from the excavated areas before restoration began and the analytical result detected trace chrysotile asbestos.

Perimeter air and composite soil samples were conducted by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

Restoration of Property: Restoration work included the installation of snow fencing on top of the subsurface of the excavated area, backfill, topsoil, and sod in the excavated lawn, and topsoil and mulch around the tree and shrub lines. All areas were restored to the original height of the surrounding grade.

Time Frame of Removal Action: Removal activities began were completed on July 6, 2017.

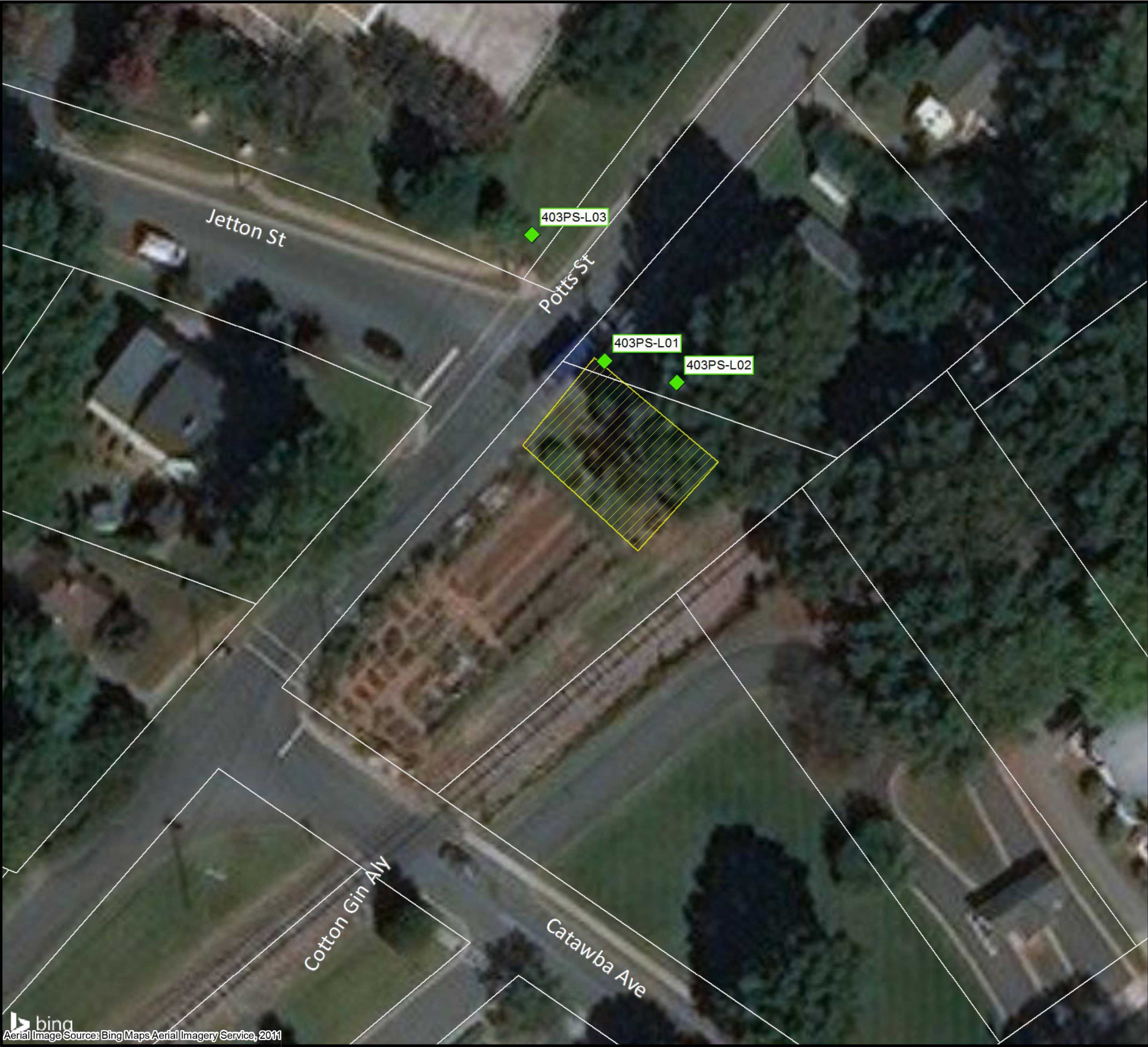
Appendices to this report include:

1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities

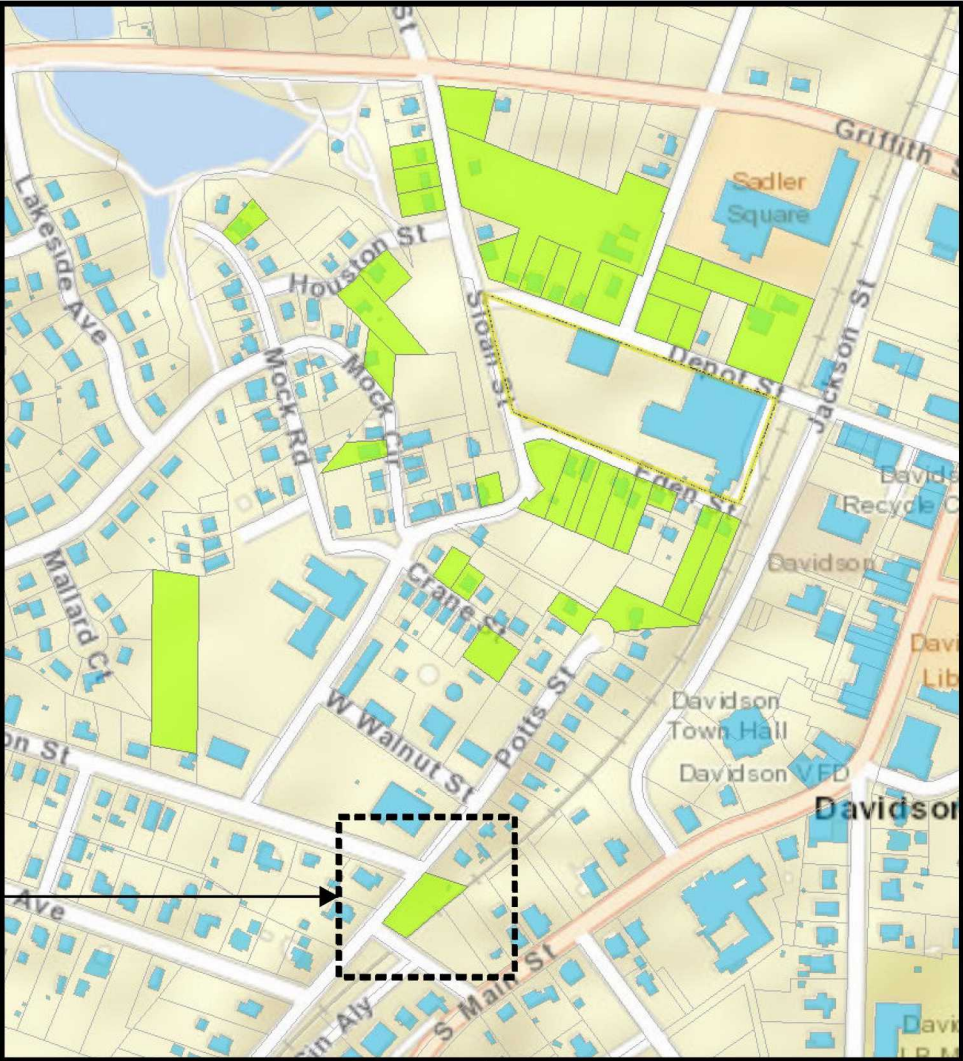
APPENDIX 1

FIGURE

(One Page)



bing
Aerial Image Source: Bing Maps Aerial Imagery Service, 2011



Legend

- Air Sample
- Removal Area
- Parcel Boundary

Inset Map

- Parcels with Removal Activities*
- Building/Structure



0 30 60
Feet

Map Sources:
Aerial Imagery, Bing Maps, 2012-2014;
Parcels, <http://maps.co.mecklenburg.nc.us>



**United States
Environmental Protection Agency
Region 4**

FIGURE 1

**Removal Areas and
Air Sampling Locations**

TDD Name: Davidson Asbestos

TDD No.: TT-01-071

City: Davidson **County:** Mecklenburg **State:** North Carolina



Date:
12/7/2017
Analyst:
dale.vonbusch

403 Potts Street

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-403PS-AA-L01-070617	403 Potts Street - Location 1	AA	G4	8:28	15:35	427	10.00	9.54	9.77	4171.8	0.0013	0	<0.0013
DA-403PS-AA-L02-070617	403 Potts Street - Location 2	AA	G1	8:31	15:36	425	10.06	9.48	9.77	4152.3	0.002	0	<0.002
DA-403PS-AA-L03-070617	403 Potts Street - Location 3	AA	G6	8:47	15:41	414	10.39	10.05	10.22	4231.1	0.0023	0	<0.0023

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos
f/cc: Fibers per cubic centimeter
Id: Identification
l: Liters

lpm: Liters per minute
Min: Minutes
PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
PS: Potts Street
TEM: Transmission electron microscopy

APPENDIX 3
PHOTOGRAPHIC LOG
(Six Pages)



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-071

Location: Davidson Asbestos

Orientation: Southwest

Date: July 6, 2017

Photographer: Paul Prys, Tetra Tech, Inc. (Tetra Tech)

Witness: None

Subject: The Emergency and Rapid Response Services (ERRS) contractor, Environmental Restoration, LLC (ER), used an excavator and hand tools to remove asbestos-containing materials (ACM) and asbestos-contaminated soil from the property located at 403 Potts Street. ER used hoses to wet the asbestos-contaminated soil during removal activities.



OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-071

Location: Davidson Asbestos

Orientation: Northeast

Date: July 6, 2017

Photographer: Paul Prys, Tetra Tech

Witness: None

Subject: ER used a skid steer and dump trucks to load and transport the asbestos-contaminated soil from the property to the staging area located at 206 Watson Street for disposal. ER placed plastic sheeting under the dump trucks to prevent asbestos-contaminated soil from falling onto the road during removal activities.



OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-071

Location: Davidson Asbestos

Orientation: Southwest

Date: July 6, 2017

Photographer: Paul Prys, Tetra Tech

Witness: None

Subject: Perimeter air sampling was conducted by a Tetra Tech Superfund Technical and Response Team (START), State of North Carolina-accredited air monitor, to evaluate the effectiveness of engineering and safety controls in preventing the off-site migration of asbestos fibers during removal activities.



OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-071

Location: Davidson Asbestos

Orientation: South

Date: July 6, 2017

Photographer: Paul Prys, Tetra Tech

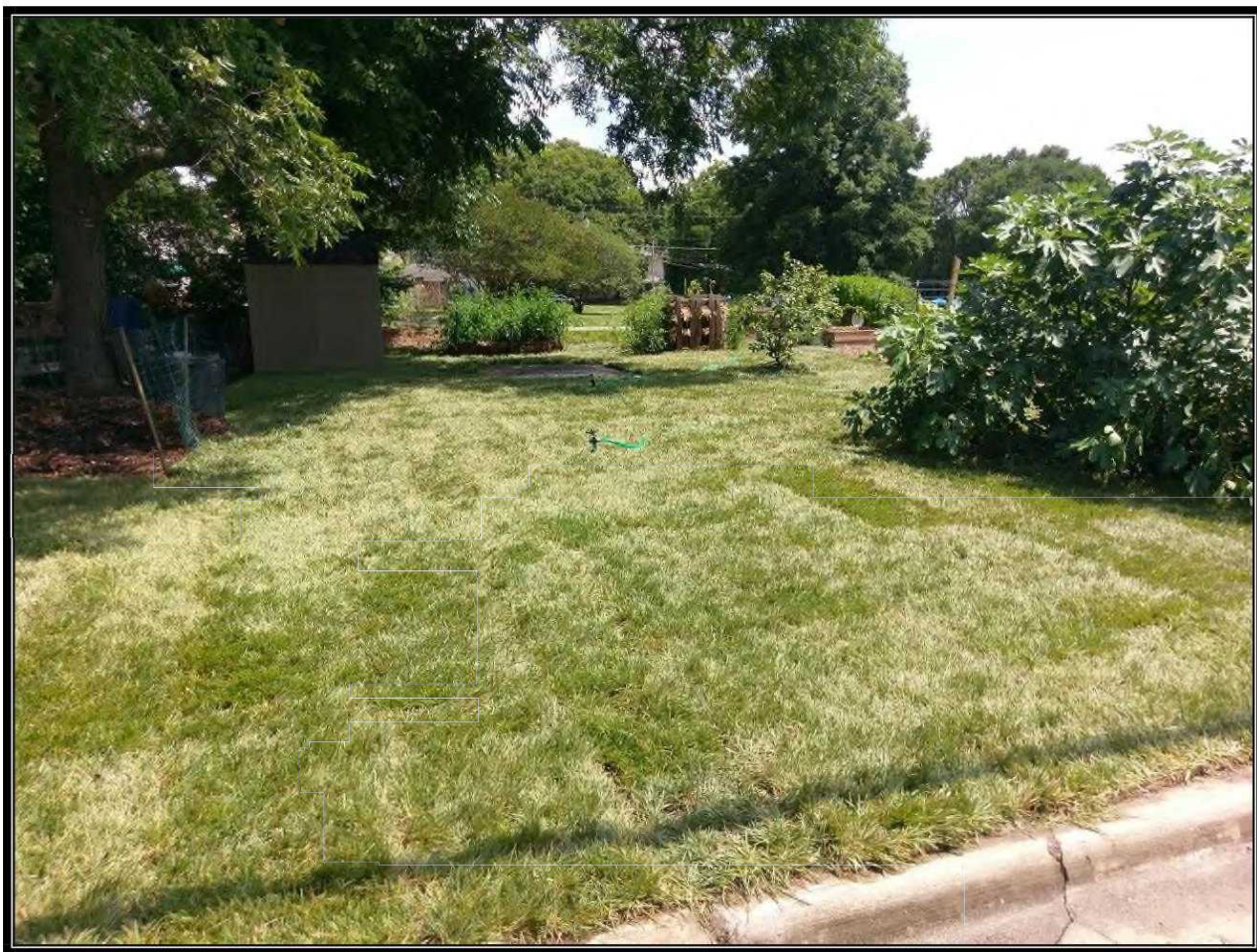
Witness: None

Subject: ER installed snow fencing along and backfill over the subsurface of the excavated area after the visual inspection conducted by Tetra Tech START, State of North Carolina-accredited asbestos inspector and air monitor, detected no visible ACM in the excavated area.



OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-071	Location:	Davidson Asbestos
Orientation:	South	Date:	July 7, 2017
Photographer:	Paul Prys, Tetra Tech	Witness:	None
Subject:	ER used dump trucks, skid steers, and rakes to install topsoil in the excavated areas.		



OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-071

Location: Davidson Asbestos

Orientation: Southeast

Date: July 8, 2017

Photographer: Paul Prys, Tetra Tech

Witness: None

Subject: ER installed sod in the excavated areas after backfill and topsoil were in place. ER used hoses with sprinkler attachments to water the sod.